OXC 5659 Copy Z of Z

18 September 1963

MEMORANDUM FOR: Assistant Director, OSA

SUBJECT:

Arc-50

25X1A	briefed the staff 5 September on visual aids intended to assist us in training pilots and maintenance personnel as well as other administrative personnel interested in the status of equipment. As a result of this briefing and the subsequent discussions, it	
25X1A	is my opinion that as presently developed is totally unsatisfactory for use in the OKCART vehicle.	
25X1A	2. It was surprising to learn that the specifications provided to regarding development and installation of this equipment did not indicate our desires to use this equipment to provide range information to the pilot for both landing and inflight refueling. The only subject discussed by was inflight refueling and it was assumed through their coordination with LAC that a forty second delay in ranging information was acceptable. A four second delay also prevails in the azimuth presentation. Additionally, the test training film indicates that the pilot will make a radio call requesting ranging and upon confirmation from the other operator, he presses an interrogate button, and the other operator presses a response button, and the fellowing forty seconds allows synchronization at which time he gets a one-time azimuth and one-time range reading. To obtain the next reading of azimuth this same sequence must be followed. I now get the picture of a receiver running at forty second intervals attempting to locate a tanker or an aircraft on a landing approach running a forty second interval before he realizes how close he may be in fact to the runway or tanker.	25X1A
25X1A	3. This subject had been previously discussed withOperations Staff who have also coordinated	25X1A
25X1A 25X1A	with, and sent in recommendations for modifications which would make the equipment satisfactory for their need. The purpose of this memorandum is a preliminary advisory as to the unacceptability of the equipment presently designed and to indicate my non-concurrence with the requirements as stated by	

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4. Now requirements provide were generally as follows:	ed toinformally 25X1/
a. Equipment must provi voice transmissions simultan presentations.	de the capability to provide mously with range and azimuth
 b. A maximum of a four estimath information is genex beyond 150 nautical miles. 	second delay in range and rally acceptable at ranges
c. A two second delay i sentation is acceptable betw 150 nautical miles.	n range and asimuth pre- reen 100 nautical miles and
 d. A continuous range a required at all ranges less 	and azimuth display is than 100 nautical miles.
e. The response to inte in those areas where delays	progation must be automatic are mandatory.
of procedures, I have requested the equipment in a F-101 be investigated of its feasibility and cost. This to conduct uninterrupted test and the landing phase.	training, particularly in
	25X1A
Deputy	for Field Activities, OSA
ce: D/TECH/OSA	
25X1A	
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